

08/819,669
APS
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updated
12/8/98

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DECEMBER 08,1998 for U.S. Current Classification Data.
DECEMBER 08,1998 for U.S. Patent Image Data.

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* PLEASE USE 305-9000 FOR NEW TELEPHONE NUMBER *

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More U.S. patent data is now available on APS. The new
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FILE 'USPAT' ENTERED AT 14:38:08 ON 08 DEC 1998

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 * WELCOME TO THE *
 * U. S. PATENT TEXT FILE *
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227 MAGE
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 SEARCH ENDED BY USER

=> s MAGE-1

227 MAGE
 2385384 1
 L1 55 MAGE-1
 (MAGE(W)1)

=> s l1 and MAGE?/clm

4328 MAGE?/CLM
 L2 16 L1 AND MAGE?/CLM

=> t l2 1-16

1. 5,843,448, Dec. 1, 1998, Tumor rejection antigen precursor; Yao-Tseng Chen, et al., 424/185.1, 277.1; 530/327, 328, 350, 395 [IMAGE AVAILABLE]
2. 5,830,753, Nov. 3, 1998, Isolated nucleic acid molecules coding for tumor rejection antigen precursor dage and uses thereof.; Pierre Coulie, et al., 435/325, 69.1, 252.3, 320.1; 530/350; 536/23.5 [IMAGE AVAILABLE]
3. 5,827,073, Oct. 27, 1998, Photoreactive peptide derivatives; Immanuel Luescher, et al., 435/7.24, 68.1, 196; 436/501, 545; 530/345 [IMAGE AVAILABLE]
4. 5,763,165, Jun. 9, 1998, Method for determining lung adenocarcinomas by assaying for one or more of **MAGE-1**, MAGE-2 and MAGE-3; Thierry Boon-Falleur, et al., 435/6, 91.2 [IMAGE AVAILABLE]
5. 5,763,155, Jun. 9, 1998, Method for determining lung adenocarcinomas by assaying for one or more of **MAGE-1**, MAGE-2 and MAGE-3 gene products; Thierry Boon-Falleur, et al., 435/4, 7.1, 7.23 [IMAGE AVAILABLE]
6. 5,759,783, Jun. 2, 1998, Method of screening for cancer by detecting messenger RNA for a MAGE-XP gene; Christophe Lurquin, et al., 435/6, 91.2; 536/24.33 [IMAGE AVAILABLE]
7. 5,662,907, Sep. 2, 1997, Induction of anti-tumor cytotoxic T lymphocytes in humans using synthetic peptide epitopes; Ralph T. Kubo, et al., 424/195.1, 193.1, 197.11, 277.1; 530/300, 328, 403 [IMAGE AVAILABLE]
8. 5,629,166, May 13, 1997, Method for identifying individuals suffering from a cellular abnormality some of whose abnormal cells present complexes of HLA-C-clone 10/**MAGE-1** derived peptides, and methods for treating said individuals; Pierre van der Bruggen, et al., 435/7.23, 6, 7.21; 436/64 [IMAGE AVAILABLE]
9. 5,612,201, Mar. 18, 1997, Isolated nucleic acid molecules useful in determining expression of a tumor rejection antigen precursor; Etienne De Plaen, et al., 435/91.2, 6; 536/23.1, 24.33 [IMAGE AVAILABLE]

10. 5,610,013, Mar. 1997, Method for diagnosing disorder by determining expression of gage tumor rejection antigen precursors; Benoit Van den Eynde, et al., 435/6, 7.1, 252.3, 252.33, 320.1, 325, 358, 362, 365; 536/23.5 [IMAGE AVAILABLE]

11. 5,587,289, Dec. 24, 1996, Isolated nucleic acid molecules which are members of the MAGE-Xp family and uses thereof; Christophe Lurquin, et al., 435/6, 252.3, 320.1, 325; 536/23.1 [IMAGE AVAILABLE]

12. 5,571,711, Nov. 5, 1996, Isolated nucleic acid molecules coding for BAGE tumor rejection antigen precursors; Pierre van der Bruggen, et al., 435/365, 69.3, 252.3, 320.1; 536/23.5 [IMAGE AVAILABLE]

13. 5,541,104, Jul. 30, 1996, Monoclonal antibodies which bind to tumor rejection antigen precursor **mage-1**; Yao-Tseng Chen, et al., 435/344.1; 424/138.1, 155.1, 174.1; 435/69.6, 70.21; 530/350, 387.7, 388.8 [IMAGE AVAILABLE]

14. 5,512,444, Apr. 30, 1996, Method for determining bladder tumors by assaying for MAGE-1,2,3 or 4; Jean-Jacques Patard, et al., 435/6, 7.1, 7.9, 91.2; 536/23.1, 24.3 [IMAGE AVAILABLE]

15. 5,512,437, Apr. 30, 1996, Method for determining head and neck squamous cell carcinomas, prostate carcinomas, and bladder tumors by assaying for **mage-3**; Beatrice Gaugler, et al., 435/6, 7.1, 7.9, 91.2; 536/23.1, 24.3 [IMAGE AVAILABLE]

16. 5,342,774, Aug. 30, 1994, Nucleotide sequence encoding the tumor rejection antigen precursor, **MAGE-1**; Thierry Boon, et al., 435/371, 69.1, 69.3, 235.1, 252.3, 320.1; 530/350; 536/23.5 [IMAGE AVAILABLE]

=> s 11 not 12

L3 39 L1 NOT L2

=> t 13 1-39

1. 5,846,827, Dec. 8, 1998, Methods for ex vivo therapy using peptide-loaded antigen presenting cells for the activation of CTL; Esteban Celis, et al., 435/384; 424/93.1, 93.7, 93.71; 435/325, 386 [IMAGE AVAILABLE]

2. 5,844,075, Dec. 1, 1998, Melanoma antigens and their use in diagnostic and therapeutic methods; Yutaka Kawakami, et al., 530/326, 327, 328, 329, 330 [IMAGE AVAILABLE]

3. 5,843,994, Dec. 1, 1998, Compositions and methods for treating and preventing pathologies including cancer; Dvorit Samid, 514/510, 513, 515, 529, 538, 563, 567 [IMAGE AVAILABLE]

4. 5,843,648, Dec. 1, 1998, P15 and tyrosinase melanoma antigens and their use in diagnostic and therapeutic methods; Paul F. Robbins, et al., 435/6, 7.1, 7.2, 7.9, 69.1, 91.2, 252.3, 254.2, 320.1 [IMAGE AVAILABLE]

5. 5,840,568, Nov. 24, 1998, Hodgkin's disease associated molecules and uses thereof; Michael Pfreundschuh, 435/252.3, 320.1; 436/94; 536/23.1, 23.5, 24.31 [IMAGE AVAILABLE]

6. 5,837,476, Nov. 17, 1998, Methods for determining disorders by assaying for a non-tyrosinase, tumor rejection antigen precursor; Vincent Brichard, et al., 435/7.23; 424/93.71, 93.72; 435/7.1, 7.24; 514/12; 530/350; 536/23.5 [IMAGE AVAILABLE]

7. 5,834,441, Nov. 10, 1998, Adeno-associated viral (AAV) liposomes and methods related thereto; Ramila Philip, et al., 514/441, 424/93.21, 450; 435/69.1, 320.1, 325; 536/24.1 [IMAGE AVAILABLE]
8. 5,833,975, Nov. 10, 1998, Canarypox virus expressing cytokine and/or tumor-associated antigen DNA sequence; Enzo Paoletti, et al., 424/93.2; 435/320.1 [IMAGE AVAILABLE]
9. 5,811,519, Sep. 22, 1998, LL-1 tumor specific genes; Bernard Lethe , et al., 530/350; 536/23.5 [IMAGE AVAILABLE]
10. 5,807,978, Sep. 15, 1998, Immunogenic peptides of prostate specific antigen; William J. Kokolus, et al., 530/300; 424/184.1, 185.1, 277.1; 530/326, 327, 403 [IMAGE AVAILABLE]
11. 5,798,264, Aug. 25, 1998, Isolated nucleic acid molecules which encode renal cancer specific antigens, and uses thereof; Michael Pfreundschuh, 435/326, 320.1, 325; 536/23.5 [IMAGE AVAILABLE]
12. 5,783,567, Jul. 21, 1998, Microparticles for delivery of nucleic acid; Mary Lynne Hedley, et al., 514/44; 435/320.1; 536/23.1 [IMAGE AVAILABLE]
13. 5,772,995, Jun. 30, 1998, Compositions and methods for enhanced tumor cell immunity in vivo; Habib Fakhrari, et al., 424/93.21; 435/6, 7.23, 69.1, 91.1, 91.4, 325; 530/389.7 [IMAGE AVAILABLE]
14. 5,759,535, Jun. 2, 1998, Immunotherapeutic strategies for the treatment of cancer; Edward P. Cohen, 424/93.21; 435/69.1, 320.1 [IMAGE AVAILABLE]
15. 5,750,395, May 12, 1998, DNA encoding MAGE-1 C-terminal cytotoxic t lymphocyte immunogenic peptides; John D. Fikes, et al., 435/325, 69.3, 252.3, 254.2, 320.1; 536/23.5 [IMAGE AVAILABLE]
16. 5,744,353, Apr. 28, 1998, Cytolytic T cell lines which bind to complexes of tumor rejection antigens and HLA-B44 molecules; Jean Herman, et al., 435/325, 372.3 [IMAGE AVAILABLE]
17. 5,736,142, Apr. 7, 1998, Alteration of immune response using pan DR-binding peptides; Alessandro Sette, et al., 424/185.1, 184.1, 193.1; 514/2, 15; 530/300, 327, 332, 868 [IMAGE AVAILABLE]
18. 5,712,307, Jan. 27, 1998, Methods of inducing the production of hemoglobin and treating pathologies associated with abnormal hemoglobin activity using phenylacetic acids and derivatives thereof; Dvorit Samid, 514/538, 563, 567 [IMAGE AVAILABLE]
19. 5,710,178, Jan. 20, 1998, Compositions and methods for therapy and prevention of pathologies including cancer, AIDS, and anemia; Dvorit Samid, 514/557, 568, 570 [IMAGE AVAILABLE]
20. 5,708,025, Jan. 13, 1998, Methods for promoting wound healing; Dvorit Samid, 514/538, 563, 567, 885, 886, 928 [IMAGE AVAILABLE]
21. 5,698,396, Dec. 16, 1997, Method for identifying auto-immunoreactive substances from a subject; Michael Pfreundschuh, 435/6, 5, 7.1, 7.23 [IMAGE AVAILABLE]
22. 5,695,994, Dec. 9, 1997, Isolated cytolytic T cells specific for complexes of MAGE related peptides and HLA molecules; Thierry Boon-Falleur, et al., 435/325, 355, 372.3; 530/328 [IMAGE AVAILABLE]
23. 5,686,068, Nov. 11, 1997, Isolated peptides derived from MAGE-2, cytolytic T cells specific to complexes of peptide and HLA-A2 molecules, and uses thereof; Cornelius J. M. Melief, et al., 424/93.71, 185.1,

277.1; 435/7.23, 325, 372.3; 530/328, 828 [IMAGE AVAILABLE]

24. 5,683,886, Nov. 4, 1997, Tumor rejection antigens which correspond to amino acid sequences in tumor rejection antigen precursor bage, and uses thereof; Pierre van der Bruggen, et al., 435/7.24; 424/93.71, 277.1; 435/7.1, 7.23; 530/324, 325, 326, 327, 328, 329, 330 [IMAGE AVAILABLE]

25. 5,674,749, Oct. 7, 1997, Monoclonal antibodies which bind to tumor rejection antigen precursor melan-A, and uses thereof; Yao-tseng Chen, et al., 435/344.1; 530/388.1, 388.85 [IMAGE AVAILABLE]

26. 5,661,179, Aug. 26, 1997, Methods for treating neoplastic conditions using phenylacetic acid and derivatives thereof; Dvorit Samid, 514/538, 563, 567; 560/19 [IMAGE AVAILABLE]

27. 5,654,333, Aug. 5, 1997, Methods for prevention of cancer using phenylacetic acids and derivatives thereof; Dvorit Samid, 514/538, 563, 567 [IMAGE AVAILABLE]

28. 5,648,226, Jul. 15, 1997, Isolated peptides derived from tumor rejection antigens, and their use; Benoit Van den Eynde, et al., 435/7.24; 424/185.1, 277.1; 435/7.23; 530/326, 327, 328, 828 [IMAGE AVAILABLE]

29. 5,635,533, Jun. 3, 1997, Methods for inducing differentiation of a cell using phenyacetic acid and derivatives; Dvorit Samid, 514/538, 563, 567 [IMAGE AVAILABLE]

30. 5,635,532, Jun. 3, 1997, Compositions and methods for therapy and prevention of pathologies including cancer, AIDS and anemia; Dvorit Samid, 514/538, 563, 567; 560/19 [IMAGE AVAILABLE]

31. 5,620,886, Apr. 15, 1997, Isolated nucleic acid sequence coding for a tumor rejection antigen precursor processed to at least one tumor rejection antigen presented by HLA-A2; Vincent Brichard, et al., 435/325, 7.23, 29, 252.3, 320.1; 514/44; 530/350; 536/22.1, 23.1, 23.5 [IMAGE AVAILABLE]

32. 5,605,930, Feb. 25, 1997, Compositions and methods for treating and preventing pathologies including cancer; Dvorit Samid, 514/510, 513, 515, 529, 538, 563, 567 [IMAGE AVAILABLE]

33. 5,591,430, Jan. 7, 1997, Isolated, MAGE-3 derived peptides which complex with HLA-A2 molecules and uses thereof; Alan Townsend, et al., 424/93.71, 185.1, 277.1; 435/7.24, 372.3; 530/328, 395, 828 [IMAGE AVAILABLE]

34. 5,585,461, Dec. 17, 1996, Isolated, MAGE-3 derived peptides which complex with HLA-A2 molecules and uses thereof; Alan Townsend, et al., 530/328; 424/185.1; 530/300, 395, 865 [IMAGE AVAILABLE]

35. 5,558,995, Sep. 24, 1996, Peptides which are derived from tumor rejection antigen precursor molecule **MAGE-1**, which complex to MHC molecule HLA-C clone 10, and uses thereof; Pierre van der Bruggen, et al., 435/7.24; 424/185.1, 277.1; 435/372.3; 530/326, 327, 328, 828 [IMAGE AVAILABLE]

36. 5,554,724, Sep. 10, 1996, Isolated tumor rejection antigen precursor MAGE-2 derived peptides, and uses thereof; Cornelis J. M. Melief, et al., 530/328; 424/185.1, 277.1; 530/300, 327, 828 [IMAGE AVAILABLE]

37. 5,554,506, Sep. 10, 1996, Isolated, MAGE-3 derived peptides which complex with HLA-A2 molecules and uses thereof; Pierre van der Bruggen, et al., 435/7.24; 424/185.1, 193.1, 273.1; 435/372.3; 514/2, 15; 530/300, 328, 828 [IMAGE AVAILABLE]

38. 5,462,871, Oct. 31, 1995, Isolated nucleic acid molecules which encode MAGE derived nonapeptides; Thierry Boon-Falleur et al., 435/354, 252.3, 365; 536/23.1, 23.5 [IMAGE AVAILABLE]

39. 5,405,940, Apr. 11, 1995, Isolated nonapeptides derived from MAGE genes and uses thereof; Thierry Boon, et al., 530/328; 424/185.1; 530/300 [IMAGE AVAILABLE]

=> logoff hold

SESSION WILL BE HELD FOR 30 MINUTES
U.S. Patent & Trademark Office SESSION SUSPENDED AT 14:43:05 ON 08 DEC 199

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Logon file001 08dec98 14:48:37

ANNOUNCEMENT **** ANNOUNCEMENT **** ANNOUNCEMENT

NEW

***MediConf (File 431) - December 1, 1998

***French Patents (File 371) - November 2, 1998

***CorpTech (File 559)

RELOADED

***Books In Print (File 470)

***BIOSIS Previews (File 5,55)- enhanced 11/16/98, see HELP NEWS5

***LA Times (File 630)

***Medical Device Register (File 167)

***Healthcare Organizations (File 168)

REMOVED

***MoneyCenter (MONEY) to be removed effective 11/1/98

***Financial Times Fulltext (File 622)

DIALINDEX

***DIALINDEX categories have been revised. For listing of new/revised categories see <http://library.dialog.com/bluesheets/html/blo.html>.

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For more details, see HELP NEWS411.

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>>> of new databases, price changes, etc. <<<

>>> Announcements last updated 23 November 98 <<<

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File 1:ERIC 1966-1998/Aug

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Set Items Description

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\$0.31 Estimated cost File1
FTSNET 0.016 Hrs.
\$0.31 Estimated cost this search
\$0.31 Estimated total session cost 0.095 DialUnits

File 410:Chronolog(R) 1981-1998/Nov/Dec
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\$0.00 Estimated cost File410
FTSNET 0.002 Hrs.
\$0.00 Estimated cost this search
\$0.31 Estimated total session cost 0.136 DialUnits

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File 155:MEDLINE(R) 1966-1998/Dec W4

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File 351:DERWENT WPI 1963-1998/UD=9848;UP=9845;UM=9843

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See HELP NEWS 351 for details.

Set	Items	Description
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313	MAGE
6626301	1
S1	141 MAGE(W)1

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141	S1
2930678	PY>1995
S2	62 S1 NOT PY>1995

? s s2 not py>1992

Processing

62	S2
5392790	PY>1992
S3	3 S2 NOT PY>1992

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3/7/1 (Item 1 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
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07385991 93052876

Human gene **MAGE-1**, which codes for a tumor-rejection antigen,
is expressed by some breast tumors [letter]

Brasseur F; Marchand M; Vanwijck R; Herin M; Lethe B; Chomez P; Boon T
Int J Cancer (UNITED STATES) Nov 11 1992, 51 (5) p839-41, ISSN
0020-7136 Journal Code: GQU
Languages: ENGLISH
Document type: LETTER

3/7/2 (Item 2 from file: 155)
DIALOG(R) File 155:MEDLINE(R)
(c) format only 1998 Dialog Corporation. All rts. reserv.

07177873 93018875

A nonapeptide encoded by human gene **MAGE-1** is recognized on HLA-A1 by cytolytic T lymphocytes directed against tumor antigen MZ2-E.
Traversari C; van der Bruggen P; Luescher IF; Lurquin C; Chomez P; Van Pel A; De Plaen E; Amar-Costesec A; Boon T
Ludwig Institute for Cancer Research, Brussels Branch, Belgium.
J Exp Med (UNITED STATES) Nov 1 1992, 176 (5) p1453-7, ISSN 0022-1007
Journal Code: I2V
Languages: ENGLISH
Document type: JOURNAL ARTICLE

We have reported the identification of human gene **MAGE-1**, which directs the expression of an antigen recognized on a melanoma by autologous cytolytic T lymphocytes (CTL). We show here that CTL directed against this antigen, which was named MZ2-E, recognize a nonapeptide encoded by the third exon of gene **MAGE-1**. The CTL also recognize this peptide when it is presented by mouse cells transfected with an HLA-A1 gene, confirming the association of antigen MZ2-E with the HLA-A1 molecule. Other members of the MAGE gene family do not code for the same peptide, suggesting that only **MAGE-1** produces the antigen recognized by the anti-MZ2-E CTL. Our results open the possibility of immunizing HLA-A1 patients whose tumor expresses **MAGE-1** either with the antigenic peptide or with autologous antigen-presenting cells pulsed with the peptide.

3/7/3 (Item 3 from file: 155)
DIALOG(R) File 155:MEDLINE(R)
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06933714 92086861

A gene encoding an antigen recognized by cytolytic T lymphocytes on a human melanoma.
van der Bruggen P; Traversari C; Chomez P; Lurquin C; De Plaen E; Van den Eynde B; Knuth A; Boon T
Ludwig Institute for Cancer Research, Brussels, Belgium.
Science (UNITED STATES) Dec 13 1991, 254 (5038) p1643-7, ISSN 0036-8075
Journal Code: UJ7
Languages: ENGLISH
Document type: JOURNAL ARTICLE

Many human melanoma tumors express antigens that are recognized in vitro by cytolytic T lymphocytes (CTLs) derived from the tumor-bearing patient. A gene was identified that directed the expression of antigen MZ2-E on a human melanoma cell line. This gene shows no similarity to known sequences and belongs to a family of at least three genes. It is expressed by the original melanoma cells, other melanoma cell lines, and by some tumor cells of other histological types. No expression was observed in a panel of normal tissues. Antigen MZ2-E appears to be presented by HLA-A1; anti-MZ2-E CTLs of the original patient recognized two melanoma cell lines of other HLA-A1 patients that expressed the gene. Thus, precisely targeted immunotherapy directed against antigen MZ2-E could be provided to individuals identified by HLA typing and analysis of the RNA of a small tumor sample.

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S4 8 S2 PY=1993
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4/7/1 (Item 1 from file: 155)
DIALOG(R) File 155:MEDLINE(R)
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07712923 94107847

Genes coding for tumor antigens recognized by human cytolytic T lymphocytes.

Coulie PG; Weynants P; Lehmann F; Herman J; Brichard V; Wolfel T; Van Pel A; De Plaen E; Brasseur F; Boon T

Ludwig Institute for Cancer Research, Brussels Branch, Belgium.

J Immunother (UNITED STATES) Aug 1993, 14 (2) p104-9, ISSN 1053-8550 Journal Code: AZO

Languages: ENGLISH

Document type: JOURNAL ARTICLE; REVIEW; REVIEW, TUTORIAL

In order to define the antigens recognized by cytolytic T lymphocytes (CTLs) on autologous tumors, we derived tumor-specific CTL clones from autologous mixed lymphocyte tumor cell cultures. The gene coding for a tumor rejection antigen expressed on a melanoma was isolated by transfecting genomic DNA of the tumor into an antigen-loss variant of the melanoma. Transfectants were identified on the basis of their ability to stimulate tumor necrosis factor release by the CTL clone. The gene that transferred the expression of the antigen was named **MAGE-1**. It is a new gene, silent in normal tissues with the exception of testis, but expressed in several types of tumors. The antigen recognized by the CTL clone is a nonapeptide derived from the protein encoded by gene **MAGE-1**, and presented by the HLA class I molecule HLA-A1. Using two other antimelanoma CTL clones, we identified the tyrosinase gene as coding for an antigen presented by HLA-A2 on this type of tumors. The identification of these tumor rejection antigens open new possibilities for the specific immunotherapy of cancer. (28 Refs.)

4/7/2 (Item 2 from file: 155)
DIALOG(R) File 155:MEDLINE(R)
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07697628 94083648

Transduction of human melanoma cell lines with the human interleukin-7 gene using retroviral-mediated gene transfer: comparison of immunologic properties with interleukin-2.

Miller AR; McBride WH; Dubinett SM; Dougherty GJ; Thacker JD; Shau H; Kohn DB; Moen RC; Walker MJ; Chiu R; et al

Division of Surgical Oncology, Jonsson Comprehensive Center, UCLA Medical Center 90024-1782.

Blood (UNITED STATES) Dec 15 1993, 82 (12) p3686-94, ISSN 0006-4971 Journal Code: A8G

Contract/Grant No.: R29 CA 50780, CA, NCI; P01 CA59326, CA, NCI; P30CA16042, CA, NCI; +

Languages: ENGLISH

Document type: JOURNAL ARTICLE

Two human melanoma cell lines were transduced with the human interleukin (IL)-7 and IL-2 genes using retroviral-mediated gene transfer. Stable, high-level cytokine expression was achieved. The in vitro growth of transduced tumors was unaltered. Neither of the IL-2-transduced melanoma cell lines grew in athymic mice, whereas one IL-7-transduced melanoma line showed retarded in vivo growth. This is consistent with animal studies suggesting a predominantly T-cell response to IL-7-transduced tumors and a more nonspecific response to IL-2-transduced tumors. Both IL-7- and IL-2-transduced melanoma cell lines could induce cytotoxic lymphocytes in mixed lymphocyte-tumor cultures. The expression of putative melanoma antigens (**MAGE**)-1 and MAGE-3 was unaltered by cytokine

transduction. In one cell line, IL-7 transduction resulted in a marked inhibition of the immunosuppressive peptide transforming growth factor (TGF)beta 1. The results allow a comparison of immunobiologic properties of IL-7- and IL-2-transduced human melanoma cell lines in consideration of their use in genetically engineered tumor vaccines. IL-7 transduction results in stable cytokine expression and phenotypic alterations that appear to be favorable for enhanced immunogenicity and it deserves clinical testing.

4/7/3 (Item 3 from file: 155)
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07660410 94031796

A tumour-associated antigen expression in human haematological malignancies.

Chambost H; Brasseur F; Coulie P; de Plaen E; Stoppa AM; Baume D; Mannoni P; Boon T; Maraninchi D; Olive D

INSERM U119, Marseille, France.

Br J Haematol (ENGLAND) Jul 1993, 84 (3) p524-6, ISSN 0007-1048
Journal Code: AXC

Languages: ENGLISH

Document type: JOURNAL ARTICLE

Objective responses obtained with high-dose in vivo recombinant interleukin 2 (r-IL2) in some leukaemic patients suggest among other hypotheses that blasts might express tumour rejection antigens potentially recognized by cytolytic T lymphocytes. Such antigens have been described in human melanomas and the **MAGE-1** gene, coding for a tumour rejection antigen was recently identified. This gene is expressed in various solid tumours, but not in normal cells. We have screened a panel of haematological malignancies by reverse transcription and PCR and we report that **MAGE-1** is not expressed in the blasts from 48 patients whereas three cell lines derived from leukaemias express this gene.

4/7/4 (Item 4 from file: 155)
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07613127 93378306

Genes coding for antigens recognized on human tumors by autologous cytolytic T lymphocytes.

Coulie P; Weynants P; Muller C; Lehmann F; Herman J; Baurain JF; Boon T
Ludwig Institute for Cancer Research, Brussels Branch, Belgium.

Ann N Y Acad Sci (UNITED STATES) Aug 12 1993, 690 p113-9, ISSN 0077-8923 Journal Code: 5NM

Languages: ENGLISH

Document type: JOURNAL ARTICLE

4/7/5 (Item 5 from file: 155)
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07559164 93291500

Perspectives for immunization of HLA-A1 patients carrying a malignant melanoma expressing gene **MAGE-1**.

Marchand M; Brasseur F; van der Bruggen P; Coulie P; Boon T
Brussels Branch, Ludwig Institute for Cancer Research, Belgium.

Dermatology (SWITZERLAND) 1993, 186 (4) p278-80, ISSN 1018-8665
Journal Code: BBV

Languages: ENGLISH

Document type: JOURNAL ARTICLE

Many human melanoma tumors express antigens that are recognized in vitro by cytolytic T lymphocytes derived from the tumor-bearing patient. A gene

has been identified that directs the expression of antigen MZ2-E on a human melanoma cell line. This gene, which has been named **MAGE-1**, shows no similarity to known sequences and belongs to a family of at least 3 closely related genes. Gene **MAGE-1** is expressed in approximately 40% of melanoma tumor samples and by some tumors of other histological types. No expression has been observed in a panel of normal tissues. Antigen MZ2-E appears to be presented by HLA-A1, a HLA type found in approximately 25% of the population. Thus, precisely targeted experimental immunotherapy directed against antigen MZ2-E could be provided to individuals identified as HLA-A1 and **MAGE-1** positive by HLA typing and analysis of the RNA of a small tumor sample.

4/7/6 (Item 6 from file: 155)
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07555643 93285864

The human melanoma antigen-encoding gene, **MAGE-1**, is expressed by other tumour cells of neuroectodermal origin such as glioblastomas and neuroblastomas [letter]

Rimoldi D; Romero P; Carrel S

Int J Cancer (UNITED STATES) May 28 1993, 54 (3) p527-8, ISSN 0020-7136 Journal Code: GQU

Languages: ENGLISH

Document type: LETTER

4/7/7 (Item 7 from file: 155)
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07535353 93252489

Tumor antigens recognized by cytolytic T lymphocytes: present perspectives for specific immunotherapy.

Boon T

Ludwig Institute for Cancer Research, Brussels Branch, Belgium.

Int J Cancer (UNITED STATES) May 8 1993, 54 (2) p177-80, ISSN 0020-7136 Journal Code: GQU

Languages: ENGLISH

Document type: JOURNAL ARTICLE; REVIEW; REVIEW, TUTORIAL (30 Refs.)

4/7/8 (Item 8 from file: 155)
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07473891 93105416

Differential expression of **MAGE-1**, -2, and -3 messenger RNA in transformed and normal human cell lines.

Zakut R; Topalian SL; Kawakami Y; Mancini M; Eliyahu S; Rosenberg SA
Surgery Branch, National Cancer Institute, NIH, Bethesda, Maryland 20892.
Cancer Res (UNITED STATES) Jan 1 1993, 53 (1) p5-8, ISSN 0008-5472 Journal Code: CNF

Languages: ENGLISH

Document type: JOURNAL ARTICLE

The **MAGE-1** gene codes for a tumor-specific antigen, MZ2-E, that elicited a cytotoxic T-lymphocyte response in the melanoma patient from whom it was derived. We have developed a simplified method, using polymerase chain reaction amplification of exon 3 followed by restriction enzyme pattern analysis, to distinguish expression of the **MAGE-1** gene from **MAGE-2** and **MAGE-3**, other members of this gene family. **MAGE-1** mRNA was expressed in 53% of 17 melanoma lines, two of seven Epstein-Barr virus-transformed B-cell lines, and 2 of 5 breast cell lines including a line established from normal breast epithelium.

MAGE-1 is not likely to be the common melanoma antigen recognized by the other HLA-A1- or HLA-A2-restricted cytotoxic T-lymphocytes examined in this study, but the fact that it is expressed in about 50% of melanoma cell lines makes it a reasonable target for the immunotherapy of patients bearing HLA-A1.
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